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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/788,047	02/16/2001	Seiji Nishioka	60586-300501 (YOSHP005)	4167
7:	590 08/12/2003			
PERKINS CO		•	EXAMINER	
101 JEFFERSON DRIVE MENLO PARK, CA 94025-1114			SERGENT, RABON A	
			ART UNIT	PAPER NUMBER
			1711	16
			DATE MAILED: 08/12/2003	,

Please find below and/or attached an Office communication concerning this application or proceeding.

·		A S-11				
	Application No.	Applicant(s)				
	09/788,047	NISHIOKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rabon Sergent	1711				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replaced in the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by stature that the period for reply will, by stature that the period for reply will, by stature that the period patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a ply within the statutory minimum of the divill apply and will expire SIX (6) MC te. cause the application to become	irreply be timely filed irry (30) days will be considered timely, NTHS from the mailing date of this communication.				
1) Responsive to communication(s) filed on 19	May 2003 .					
2a)⊠ This action is FINAL . 2b)□ T	his action is non-final.					
3) Since this application is in condition for allow closed in accordance with the practice under	vance except for formal m r <i>Ex parte Quayle</i> , 1935 C	atters, prosecution as to the merits is .D. 11, 453 O.G. 213.				
Disposition of Claims	P P					
· -	Claim(s) 1,5,6 and 8-10 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) <u>5 and 8-10</u> is/are allowed.					
6)⊠ Claim(s) <u>5 and 6 is/are rejected.</u>						
_						
8) Claim(s) are subject to restriction and/o	or election requirement					
Application Papers	or orodion requirement.					
9)☐ The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) ☐ objected to by	the Examiner.				
Applicant may not request that any objection to the						
11)☐ The proposed drawing correction filed on	_ is: a)□ approved b)□	disapproved by the Examiner.				
If approved, corrected drawings are required in re						
12) The oath or declaration is objected to by the Ex	xaminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority documen 	ts have been received.					
2. Certified copies of the priority documen	ts have been received in	Application No				
3. Copies of the certified copies of the priceapplication from the International But* See the attached detailed Office action for a list	ureau (PCT Rule 17.2(a)).	_				
14) Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C	§ 119(e) (to a provisional application).				
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domes 	ovisional application has t	peen received.				
Attachment(s)	·					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				
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- 1. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for methods of purifying acetic anhydride wherein the acetic anhydride containing diketenes is distilled then treated with an ozone-containing gas, does not reasonably provide enablement for virtually any method of purifying acetic anhydride. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims. Applicants have failed to provide enablement for purification methods, other than the aforementioned one, that will yield an acetic anhydride having the claimed hue value.
- 2. Claim 6 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicants have not provided support for the treatment of an ozone-containing gas.
- 3. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear how the method of purifying crude acetic anhydride relates to the treatment of an ozone-containing gas.

Furthermore, within line 2 of claim 6, "the acetic anhydride" lacks antecedence.

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4. Claim 6 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for methods of purifying acetic anhydride containing diketenes, does not reasonably provide enablement for methods of purifying acetic anhydride containing "ketenes". The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims. Applicants' disclosed methods are directed to methods of reducing diketene contents, as opposed to ketene contents.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

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claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claim 1 is rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kobayashi et al. ('842).

Kobayashi et al. disclose the production of polyoxytetramethylene glycol wherein acetic anhydride having a preferred ketene dimer content of 5 ppm or less is utilized. See examples. It is further noted that the exemplified acetic anhydride is subjected to a heat treatment and that the product remained colorless. The position is taken that the language denoted by "such that" merely sets forth a property that the acetic anhydride must possess and does not constitute a claimed process step; therefore, since the disclosed acetic anhydride has a low ketene dimer content and, after heat treatment, is disclosed as being colorless, the position is taken that the disclosed acetic anhydride inherently possesses the claimed hue value.

7. Alternatively, since reactants of increased purity are presumed to yield improved products, the position is taken that it would have been obvious to produce polyoxytetramethylene glycol using acetic anhydride having low ketene dimer contents and correspondingly low hue values. Based on the teachings of the reference, one would reasonably expect that discoloration decreases as ketene dimer content decreases.

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8. Applicants' arguments have been considered, and the rejection has been modified

accordingly.

9. Claims 5, 6, and 8-10 are allowable over the prior art of record.

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

will the statutory period for reply expire later than SIX MONTHS from the date of this final

action.

Any inquiry concerning this communication should be directed to R. Sergent at telephone

number (703) 308-2982.

MARY EXAMINER

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R. Sergent August 11, 2003